



Texas Chapter
International Society
of Arboriculture



PRESENTS THE

38TH ANNUAL TEXAS TREE CONFERENCE

TREE ACADEMY, TRADE SHOW & TREE SCHOOL



SEPTEMBER 26-28, 2018
WACO CONVENTION CENTER
100 WASHINGTON AVE. - WACO, TEXAS 76701
VISIT WWW.ISATEXAS.COM FOR MORE INFORMATION



ARBORISTS • URBAN FORESTERS • TREE ADVOCATES • MUNICIPALITIES • UTILITIES
LANDSCAPE ARCHITECTS • LANDSCAPE CONTRACTORS • CONSULTANTS • GROWERS
PARKS AND RECREATION AND PUBLIC WORKS EMPLOYEES • LANDSCAPE INSPECTORS



2018 Texas Tree Conference At-a-Glance

Wednesday, September 26

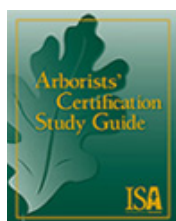
8:00 am - 5:00 pm	Registration Open
9:00 am - 12:00 pm	Tree Academy Morning Session
1:00 pm - 4:00 pm	Tree Academy Afternoon Session
8:00 am—5:00 pm	TRAQ Renewal Course
1:00 pm - 5:00 pm	Exhibitor Set Up
3:00 pm—5:00 pm	Non-profit Focus Discussion
6:00 pm - 7:30 pm	ISAT Social at the Dr. Pepper Museum

Thursday, September 27

7:00 am - 5:00 pm	Registration Desk and Bookstore Open
7:00 am - 5:00 pm	Trade Show and Poster Session Open
7:00 am- 7:50 am	Breakfast with Exhibitors
8:00 am - 11:45 am	General Session
12:00 pm - 1:15 pm	Awards Luncheon
1:30 pm - 5:00 pm	Breakout Sessions
5:00 pm - 7:00 pm	Reception with Exhibitors & Silent Auction

Friday, September 28

7:00 am - 10:30 am	Registration Desk and Bookstore Open
7:00 am - 10:30 am	Trade Show and Poster Session Open
7:00 am - 7:50 am	Breakfast with Exhibitors
8:00 am - 9:00 am	ISAT Annual Meeting
9:00 am - 12:00 pm	Breakout Sessions
9:30 am - 3:30 pm	Texas Tree Schools
12:00 pm - 4:00 pm	ISA Certified Arborist Exam



ISAT Bookstore

Open All Day Thursday
Friday until 10:30 am

ISA & ISAT Apparel and Merchandise
Books, CEU Materials & Study Guides,
Discounted Member Rates!

Welcome!

The Texas Chapter ISA invites you to enjoy the outstanding education programs featuring nationally and internationally known speakers, the latest in tree research, commercial, urban and utility forestry talks, the state-wide tree awards luncheon, a trade show and reception with exhibitors and numerous opportunities to network with your peers. See you there!!!

Wednesday Evening Arborists Social At the Dr. Pepper Museum

6:00 pm to 7:30 pm
300 S. 5th Street—Walk on Over!
Included with full-conference registration
You must wear your name badge for admittance

Silent Auction

All day Thursday
and
Friday until 10:00 am



2018 Texas Community Forestry and Tree Care Awards Luncheon

Brazos Ballroom
Thursday
12:00 - 1:15

Arborist of the Year
Arboricultural Project of the Year
Volunteer of the Year
Outstanding Arbor Day Award

ISA CERTIFICATION EXAM

Friday, September 28, 12:00 pm - 4:00 pm

Register online @ www.ISATexas.com

2018 TEXAS TREE CONFERENCE

Featured Speakers

Dr. Dirk Dujesiefken, Professor, University of Applied Science (HAWK), Hamburg, Germany

Dirk Dujesiefken was a researcher at the Institute of Wood Biology at the University of Hamburg from 1980 to 1991 and head of the Institute of Arboriculture in Hamburg from 1991 to 2016. Now he is a Senior Scientist at this institute and teaches at the University of Applied Science (HAWK) in Göttingen/Germany and at the University of Natural Resources and Life Science (BOKU) in Vienna/Austria.

Dr. Kathleen Wolf, Research Social Scientist, University of Washington, Seattle

Dr. Kathleen Wolf is a Research Social Scientist with the College of the Environment at the University of Washington (Seattle), and is also a research associate with the Pacific Northwest Research Station, USDA Forest Service. Her research focus is the human dimensions of urban forestry and urban ecosystems, particularly human health. Another interest is the translation of scientific evidence for use in local government policy and planning. Basically, she finds people and nature fascinating!

Dr. Fredric Miller, Senior Scientist-Entomology, The Morton Arboretum, Naperville, IL

Dr. Fredric Miller is professor of horticulture in the Department of Agriculture and Horticulture Sciences at Joliet Junior College, Joliet, Illinois and a Senior Research Scientist – Entomology at The Morton Arboretum, Lisle, Illinois. He is a Board Certified Master Arborist who received his B.S. in Forest Management from the University of Missouri-Columbia a M.S. in Forest Entomology from the University of Arkansas-Fayetteville, and the Ph.D. in Entomology from Iowa State University.

Dr. W. Todd Watson, Tree and Landscape Consultant, Millican

Dr. W. Todd Watson has been an international plant health care consultant for over 25 years. He is an Adjunct Professor in the Department of Ecosystem Science and Management at Texas A&M University where he was named a Montague Teaching Scholar in 2005. In addition, he is a member of the International Society of Arboriculture and is a Past President of the ISA Texas Chapter. He is an ISA Board-Certified Master Arborist and was voted Texas Arborist of the Year in 2003.

Dr. David Kulhavy, Professor, Stephen F. Austin University, Nacogdoches

Dr. David Kulhavy, also known as "Dr. Bug" by thousands of students and teachers across the nation, has developed an educational program to bring entomology to elementary and secondary school classrooms. Piper Professor of Forest Entomology and Landscape Ecology in the Arthur Temple College of Forestry at Stephen F. Austin State University, Dr. Kulhavy received the Distinguished Teaching Award in Entomology from the Entomological Society of America and was awarded the regional National Association of Interpretation award for his interpretations of Dr. Dave's Bugs.

Dr. Mike Merchant, Professor and Extension Urban Entomologist, Texas A&M AgriLife Extension, Dallas

Dr. Mike Merchant has served as urban entomology specialist at the Texas AgriLife Research and Extension Center at Dallas since 1989. He works to promote safer, more effective pest control methods for insect pests of structures and landscapes. He discovered the crape myrtle bark scale in the U.S., and has over four field seasons screening insecticides for control of this pest. Current control recommendations are based largely on Dr. Merchant's work.

Dr. Raul Cabrera, Associate Professor and Extension Specialist, Rutgers University, Bridgeton, New Jersey

Dr. Raul Cabrera is an Associate Professor and Extension Specialist in Nursery Crops/Ornamental Horticulture with Rutgers University. He specializes in the biology, production and management woody ornamental plants and trees. In recent years his research has focused on irrigation water quality, assessment of tree/plant nutrient and water requirements, salinity management in trees and shrubs, fertilization and soil management practices in urban environments.

Dr. Linda Chalker-Scott, Associate Professor and Extension Specialist, Washington State University, Puyallup

Dr. Linda Chalker-Scott has a Ph.D. in Horticulture from Oregon State University and is an ISA Certified Arborist and an ASCA consulting arborist. She is WSUA's Extension Urban Horticulturist and an Associate Professor in the Department of Horticulture, and holds two affiliate associate professor positions at University of Washington. She conducts research in applied plant and soil sciences, publishing the results in scientific articles and university extension fact sheets.

Dr. Michael Arnold, Professor and Associate Department Head, Texas A&M University

Dr. Michael Arnold received B.S. degrees in Business Administration and Horticulture and an M.S. in Horticulture from The Ohio State University and a Ph.D. in Horticulture from North Carolina State University. He has worked with the nursery and landscape industries in Ohio, North Carolina, Tennessee and Texas for over 35 years. Dr. Arnold is a Professor and Associate Head in the TAMU Dept. of Horticultural Sciences where he teaches plant materials courses and conducts landscape research.

Register online @ www.ISATexas.com

WEDNESDAY, SEPTEMBER 26 - TEXAS TREE ACADEMY

(The Tree Academy requires a separate registration from the Conference - includes lunch)

Texas Tree Academy

9:00 am - 4:00 pm

(Registration 8:00—9:00)

Section One: Creating Safe Spaces for Trees

Dr. Todd Watson

*Tree and Landscape Consultant
McLennan Rooms 208-209*

Do you get triggered when you see trees die a slow painful death on a construction site? Do you scream at the sky when trees are bulldozed in a development and then the streets are named after them? Then this course is for you. You will learn how to:

- Start at ground level to get to the root of tree protection.
- Discover the latest dirt on modifying urban soils.
- Construct constructive tactics to avoid construction damage.
- Identify concrete solutions for trees surrounded by concrete.
- Design and develop strategies to help designers and developers.

These topics and more (bad jokes) will be addressed to help you create safe spaces for trees and better preserve trees during construction.

Section Two: Field Stations

Station 1: Tree ID—Texas Style

*Courtney Blevins, Regional Urban Forester, Texas A&M
Forest Service, Fort Worth*

Station 2: Tree Injection Technology You Need To Know

*Emmett Muennink, Arborjet -South Central Technical
Manager, The Colony*

Station 3: Present and Future Opportunities for Drone Arboriculture

*Dan Staley is Principal of Arbor Drone, LLC, Aurora,
Colorado*

Station 4: Diagnosing and Treating Soil and Root Issues

*Dr. Hans Williams, Associate Dean and Nelson
Distinguished Professor of Forestry, Stephen F. Austin
University, Nacogdoches*

Station 5: Root Management Solutions

*Billy Cook, Chief Arborist and Co-Owner of Preservation
Tree, Dallas, Texas*

OTHER WEDNESDAY EVENTS



Tree Risk Assessment Qualification Renewal

Skip Kincaid

Texas South Room 116/117

8:00 am—5:00 pm

**Pre-registration Required
(No Walk-Ins)**

Wednesday Evening Arborists Social

6:00 PM to 7:30 PM

Food, Beer & Networking

Dr. Pepper Museum and Free Enterprise Institute

3-Blocks From the Convention Center

Walk On Over!

300 E 5th Street, Waco

Included with full-conference registration

You must wear your name tag to attend



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THURSDAY, SEPT. 27 - TEXAS TREE CONFERENCE

Day At-a-Glance	
Thursday, September 27	
7:00 am - 5:00 pm	Registration Desk and Bookstore open
7:00 am - 5:00 pm	Trade Show open
7:00 am - 7:50 am	Breakfast with Exhibitors
8:00 am - 11:45 am	General Session
12:00 pm - 1:15 pm	Awards Luncheon
1:30 pm - 5:00 pm	Breakout Sessions
5:00 pm - 7:00 pm	Reception with Exhibitors and Silent Auction

General Session 8:00 am - 11:45 am McLennan Rooms 208—209

8:00 - 8:15

Welcome by City of Waco Representative

8:15 - 9:15

Compartmentalization 2.0

Dirk Dujesiefken, Professor, University of Applied Science (HAWK), Hamburg, Germany

9:15 - 10:15

Trees: A Matter of Life and Death?

Kathleen Wolf, Research Social Scientist, University of Washington, Seattle

10:15 - 10:45

Break with Exhibitors

10:45 - 11:45

Drones for Vegetation Management

Eric Bitzko, Technical Services Supervisor, Pedernales Electric Cooperative, Johnson City

Municipal Track—McLennan Room 208	Commercial Track—McLennan Room 209	Utility Track—McLennan Room 207
<p>1:30 - 2:15 pm The Urban Forest and Community Economics: Money Does Grow on Trees! <i>Kathleen Wolf, Research Social Scientist, University of Washington, Seattle</i></p> <p>2:15 - 3:00 pm What Size Tree Should I Plant? <i>Michael Arnold, Professor and Associate Department Head, Texas A&M University, College Station</i></p> <p>3:00 - 3:30 p.m. Break with Exhibitors</p> <p>3:30 - 4:15 pm Urban Tree Genetics <i>Fred Raley, Tree Improvement Coordinator, Texas A&M Forest Service, College Station</i></p> <p>4:15 - 5:00 pm Alternative Water Sources for City Trees <i>Raul Cabrera, Associate Professor and Extension Specialist, Rutgers University, Bridgeton, New Jersey</i></p>	<p>1:30 - 2:15 pm Standard of Care and Liability for Arborists <i>Skip Kincaid, Director of Urban Forestry, Hansen's Tree Service and Environmental Services, St. Louis, MO</i></p> <p>2:15 - 3:00 pm Hamburg Tree Pruning System <i>Dirk Dujesiefken, Professor, University of Applied Science (HAWK), Hamburg, Germany</i></p> <p>3:00 - 3:30 pm Break with Exhibitors</p> <p>3:30 - 4:15 pm Arboricultural Myths <i>Linda Chalker-Scott, Associate Professor and Extension Specialist, Washington State University, Puyallup</i></p> <p>4:15 - 5:00 pm Stationary Rope System: One Company's Perspective <i>Jim Dossett, Division Safety and Training Coordinator, The F.A. Bartlett Tree Expert Company, Austin</i></p>	<p>1:30 - 2:15 pm Safety Aspects of Transmission Vegetation Control <i>Ben Thorp, Transmission Utility Forester, American Electric Power, Laredo</i></p> <p>2:15 - 3:00 pm Line Clearance Trimmer Certification is Critical <i>Erik Palacios, Arborist Training-Instructor, ACRT, Donna</i></p> <p>3:00 - 3:30 pm Break with Exhibitors</p> <p>3:30—4:15 pm Development of a Large Utility Tree Program <i>George Leader, Vegetation Maintenance Manager, Pedernales Electric Coop</i></p> <p>4:15 - 5:00 pm Wood Waste Options for Urban and Utility Forestry <i>Steve Ghormley, Vice President, Novis Wood Group, Houston</i></p>

FRIDAY, SEPTEMBER 28

TEXAS TREE CONFERENCE

Day At-a-Glance

Friday, October 2

7:00 am - 10:30 am	Registration desk and Bookstore open
7:00 am - 10:30 am	Trade Show open
7:00 am - 7:50 am	Breakfast with Exhibitors
8:00 am - 9:00 am	ISAT Annual Meeting
9:00 am - 12:00 pm	Breakout Sessions
9:30 am - 3:30 pm	Texas Tree Schools
12:00 pm - 4:00 pm	ISA Certified Arborist Exam



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General Session - 8:00 am - 9:00 am—McLennan Room 209

ISAT Business Meeting and Election Results - Updates from ISA International and the TREE Fund

Municipal Track—McLennan Room 208	Commercial Track—McLennan Room 209	Utility Track—McLennan Room 207
<p>9:00 - 10:00 am Sustainable Soils <i>David Vaughan, Arborist, Etter Tree Care, San Antonio</i></p> <p>10:00 - 10:30 am—Break with Exhibitors</p> <p>10:30 - 12:00 am Sustainable Practices in Texas Cities Panel: Increasing an Urban Forestry Program on a Decreasing Budget <i>Cody Goldman, Urban Forester, City of Tyler</i> Urban Forestry Carbon Trading in Central Texas: a Partnership for City Forest Credits <i>Thais Perkins, Executive Director, TreeFolks, Austin</i> El Paso Urban Forestry: Bosques in the Desert <i>Tyler Treharne, Principal, El Paso Sustainable Design</i> Chew on This Apple: Feed Your City <i>Mark Bird & Ross Hosea, City of San Antonio</i></p>	<p>9:00 - 10:00 am Using Parasitoids to Battle EAB <i>Fredric Miller, Senior Scientist-Entomology, The Morton Arboretum, Naperville, IL</i></p> <p>10:00 - 10:30 am Break with Exhibitors</p> <p>10:30 - 11:15 am RFLP Oak Wilt Detection <i>Sheila McBride, Program Extension Specialist, Texas A&M AgriLife Extension Service</i></p> <p>11:15 am - 12:00 pm Crape Myrtle Bark Scale <i>Mike Merchant, Professor and Extension Urban Entomologist, Texas A&M AgriLife Extension, Dallas</i></p>	<p>9:00 - 10:00 am Latest Utility Tree Work Equipment <i>Matthew Austin, Utility Forester/UAV Pilot, Fredericksburg</i></p> <p>10:00 - 10:30 am Break with Exhibitors</p> <p>10:30 - 11:15 am University Drone Research - Mapping and Record Keeping <i>David Kulhavy, Professor, Stephen F. Austin University, Nacogdoches</i></p> <p>11:15 am - 12:00 pm University Drone Research - Working With Land Owners <i>David Kulhavy, Professor, Stephen F. Austin University, Nacogdoches</i></p>

Register online @ www.ISATexas.com

FRIDAY, SEPTEMBER 28

TEXAS TREE SCHOOLS

The Texas Tree School

9:30 am to 3:30 pm

Track 1 English

An Introduction to Arboriculture

Texas North Rooms 114-115

A great review or introduction to basic tree care for tree workers. This newly redesigned, stand-alone one day workshop will be a combination of classroom and field demonstrations. Topics covered will include basic tree biology, tree pruning, climbing techniques including advanced ascent techniques (SRT), tree hazard assessment and job site safety. Master instructors are Guy LeBlanc, Arbor Vitae Tree Care and Greg Church, Preservation Tree Service.

Tree Schools are not part of the main conference and require separate registration (lunch is included)

9:30—10:45	General Work Safety: Statistics, causes of injuries, ergonomics, job briefing, work zone protocol, ANSI "Z"
	Guy LeBlanc
11:00—12:00	Tree Pruning: Includes Compartmentalization of Decay in Trees (CODIT), branch collars, reduction pruning, injurious pruning
	Guy LeBlanc
12:30—1:30	Biology Basics: Taxonomy, A&P, photosynthesis and respiration, reaction growth responses and more details on CODIT
	Greg Church
1:30—3:15	Outdoor Demonstrations- weather permitting (otherwise limited indoor): Site, tree and equipment inspection, throw-line tips, friction saver installation and use, ascent techniques, multiple DdRT and SRT techniques, work positioning techniques
	Guy LeBlanc
3:15—3:30	Class Wrap-Up: Review and CEU sign-up
	Guy LeBlanc and Greg Church

The Texas Tree School

9:30 am to 3:30 pm

Pista 2

Jornadas para Trabajadores de Arboles

Texas North Room 113

A Spanish language workshop covering tree biology, soil science, tree selection, installation & establishment, pruning, and diagnosis & plant disorders.

Tree Schools are not part of the main conference and require separate registration (lunch is included)

9:30 – 9:45	Presentation of Day's Activities & Speakers Presentaciones de las Actividades del Día y de los Invitados
	Mark Duff & Bill Green
9:45 – 10:45	Practical Applications of Plant Biology for Care & Management of Trees Aplicaciones Prácticas de Biología en el Cuidado y Manejo de Árboles
	Raul Cabrera
11:00 – 11:30	Working Near Powerlines Trabajo Cercano a Peligros Eléctricos (La Seguridad y Calificaciones)
	Erick Palacios
11:30 – 12:15	Climbing Safety (outside) La Seguridad durante la Trepa de Árboles (afuera)
	Erick Palacios
12:15 – 1:15	Job Briefing (Pre-Work Safety Meeting) La Seguridad a través de la Reunión/ Resumen Pre-Trabajo
	Bill Green
1:15 – 2:00	Oak Wilt Marchitamiento de Encino
	Mark Duff
2:15 – 3:15	BMPs for Irrigation & Fertilization in Trees Mejores Prácticas de Manejo de Riego y Fertilización en Árboles
	Raul Cabrera
3:15 – 3:30	Wrap-up and Review of Day Resumen y Repaso del Día
	Mark Duff & Bill Green

2018 TEXAS TREE CONFERENCE

Our Sponsors & Exhibitors

Please visit them and thank them for their support

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The Hartford

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Wright Tree Service

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Trinity Lightweight

Vermeer Texas-Louisiana

Want to be a sponsor or exhibit?

<http://isatexas.com/events/2018-texas-tree-conference>

Texas Chapter

International Society of Arboriculture

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2108 Conference Chair

Emily King



**SUSTAINABILITY
IN ARBORICULTURE**
Celebrating 40 Years of Texas ISA

Academy, Conference & Tree School ISA CEUs

Wednesday-Sept. 26	CA	US	MS	CTW	MA-S	MA-P	MA-M
Tree Academy—1	5.5	0	5.5	0	0	0	5.5
Tree Academy—2	2.5	0.5	2.5	0.5	1	1	0.5
Thursday-Sept. 27							
Gen Session	3	1	3	2	2	1	0
Municipal Track	3	0	3	1.5	0.75	1.5	0.75
Commercial Track	3	3	3	3	0.75	0.75	1.5
Utility Track	3	3	1.5	0.75	0	2.25	0.75
Friday-Sept. 28							
Business Meeting	1	1	1	1	0	0	1
Municipal Track	2	0	2	0.25	0	1	0
Commercial Track	2.5	0	2.5	0	0	2.5	0
Utility Track	2.5	2.5	1.5	1.75	0	1	0.75
Tree School—English	5.25	4.25	4.25	4.25	1	4.25	0
Tree School—Spanish	4.5	3.5	4.5	4.5	0	4.5	0

Register online @ www.ISATexas.com